This listing of claims will replace all prior versions, and listings, of claims in the present

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application.

**Listing of Claims**:

1. (Original) A method for preparing a cellulose ether comprising mixing cellulose with

an ionic liquid solvent to dissolve the cellulose, and then treating the dissolved cellulose with an

etherifying agent in the presence of an inorganic base to form a cellulose ether, and subsequently

separating the cellulose ether from the solution, wherein both the dissolution and the

etherification are carried out in the absence of an organic base and in the substantial absence of

water.

2. (Original) The method according to claim 1 wherein microwave irradiation is applied

to assist in dissolution and etherification.

3. (Previously Presented) The method according to claim 1 wherein pressure is applied

to assist in dissolution and etherification.

4. (Original) The method according to claim 1 wherein the ionic liquid solvent is molten

at a temperature of below 200°C.

5. (Currently Amended) The method according to claim 1 wherein the cation of the ionic liquid solvent is selected from the group consisting of

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wherein R<sup>1</sup> and R<sup>2</sup> are independently a C<sub>1</sub>-C<sub>6</sub> alkyl or C<sub>2</sub>-C<sub>6</sub> alkoxyalkyl group, and R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>,

 $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$  are independently hydrogen, a  $C_1$ - $C_6$  alkyl,  $C_2$ - $C_6$  alkoxyalkyl or  $C_1$ - $C_6$  alkoxy

group or halogen, and

wherein the anion of the ionic liquid solvent is halogen, pseudohalogen, thiocyanate, cyanate,

perchlorate or C<sub>1</sub>-C<sub>6</sub> carboxylate.

6. (Currently Amended) The method according to claim 5 wherein said cation comprises

$$R^{4} \xrightarrow{R^{5}} R^{5}$$

$$R^{1} \xrightarrow{N} R^{3}$$

wherein R<sup>3</sup>-R<sup>5</sup> are each hydrogen and R<sup>1</sup> and R<sup>2</sup> are the same or different and represent C<sub>1</sub>-C<sub>6</sub> alkyl, and said anion is halogen, preferably chloride.

7. (Currently Amended) The method according to claim 1 wherein the cation of the ionic liquid solvent is

wherein R<sup>10</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> are independently a C<sub>1</sub>-C<sub>30</sub> alkyl, C<sub>3</sub>-C<sub>8</sub> carbocyclic or C<sub>3</sub>-C<sub>8</sub> heterocyclic group and the anion of the ionic liquid solvent is halogen, pseudohalogen, thiocyanate, cyanate, perchlorate, C<sub>1</sub>-C<sub>6</sub> carboxylate or hydroxide.

8. (Original) The method according to claim 1 wherein the inorganic base is lithium, sodium or potassium hydroxide.

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9. (**Previously Presented**) The method according to claim 1 wherein the ether group of the cellulose ether is a C<sub>1</sub>-C<sub>6</sub> alkyl, aryl or aryl C<sub>1</sub>-C<sub>3</sub> alkyl group optionally substituted by one or more functional groups selected from the group consisting of carboxyl, hydroxyl, amino, alkoxy, halogen, cyano, amide, sulfo, phosphoro, nitro and silyl.

10. (**Previously Presented**) The method according to claim 1 wherein the ether group of the cellulose ether is a silyl group substituted by three groups selected from the group consisting of C<sub>1</sub>-C<sub>9</sub> alkyl, aryl and aryl C<sub>1</sub>-C<sub>3</sub> alkyl.

- 11. (**Original**) The method according to claim 1 wherein the etherifying agent is a C<sub>1</sub>-C<sub>6</sub> alkyl, aryl or aryl C<sub>1</sub>-C<sub>3</sub> alkyl halogenide or sulfate optionally substituted by one or more functional groups selected from the group consisting of carboxyl, hydroxyl, amino, alkoxy, halogen, cyano, amide, sulfo, phosphoro, nitro and silyl.
- 12. (**Original**) The method according to claim 11 wherein the etherifying agent is sodium chloroacetate.
- 13. (Original) The method according to claim 1 wherein the etherifying agent is an epoxide.

14. (Original) The method according to claim 1 wherein the etherifying agent is an acrylic compound.

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- 15. (Original) The method according to claim 1 wherein the etherifying agent is a diazoalkane compound.
- 16. (Original) The method according to claim 1 wherein the cellulose ether is separated from the solution by adding a non-solvent for the cellulose ether to precipitate the cellulose ether.
- 17. (**Original**) The method according to claim 16 wherein said non-solvent is an alcohol, a ketone, acetonitrile, dichloromethane, a polyglycol, an ether or water.
- 18. (Currently Amended) The method according to claim 1 wherein the eellolose cellulose ether is separated by extraction with a non-solvent for the ionic liquid solvent.
  - 19. (New) The method according to claim 6 wherein said anion is chloride.